

Imagine.

 Roland®

DVE
Digital Value Engineering



Metallic Revolution

VersaCAMM Print&Cut Inkjets

VS-640 VS-540 VS-420 VS-300





Metallic Revolution

Add Stylish Accents, Sophistication and Premium Value with Metallic Silver Ink

With the addition of Metallic Silver ink, you can easily apply luxurious effects to printed graphics with brilliant metallic colours that were previously available only through silk screening, offset printing, and hot stamping. The design possibilities are boundless with the rich textures and smooth gradations of gold, silver, metallic and pearlescent colours. A choice of four inkjet printer/cutter sizes provides a wide variety of cost-effective options.



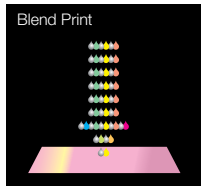
Explore a New World of Creative Expression with Metallic Colours

Metallic Colours and White Ink Produce Premium Quality Results

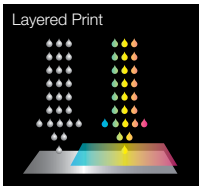
The metallic and white ink option allows Roland VS users to add value and sophistication to virtually any graphic. ECO-SOL MAX Metallic Silver ink can be printed as a spot colour, or combined with CMYK to produce a wide range of metallic and pearlescent colours.

Two metallic print modes are available to expand your options. Choose Blend print mode to print CMYKcLm and Metallic Silver ink together for natural metallic colours. Or choose Layered print mode to print Metallic Silver first, then CMYKcLm with one pass. This mode achieves richer metallic colours just like coating silver with translucent CMYK colours.

Blend Print



Layered Print



Produce Stunning Metallic Effects Easily

Roland's Metallic Texture System Library allows you to easily apply unique patterns and textures to metallic colours for added impact. Simply select a texture or pattern from the Roland swatch library in Adobe® Illustrator® and apply it to your graphic.



Roland Metallic Texture System Library



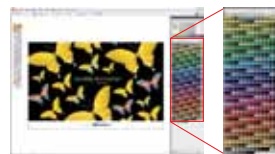
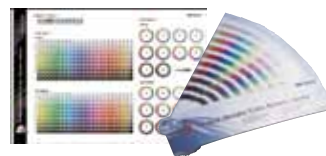
You can choose from 26 unique designs including hairline borders and dot patterns.

Wide Range of Metallic Colours Available with the Roland Color System Library

The VS series supports 512 spot metallic colours allowing you to apply one or more predefined colours to any graphic with a click of the mouse. You can also choose colours from Adobe® Illustrator®.



Roland Metallic Color System Library



Included Software Ensures Optimum Performance

VersaWorks - Roland's Powerful, Easy-to-Use RIP Software

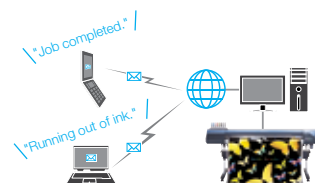
Roland's true Adobe® PostScript® 3™ RIP is easy to use and incorporates the latest CPSI engine for exceptional production output. Features include estimation of ink usage and print time for each job, control of up to four Roland devices, and accurate colour matching using the Roland Color System.



RIP & PRINT MANAGEMENT SOFTWARE
Roland VersaWorks® Adobe PostScript 3

Roland OnSupport for Remote Production Management

Roland OnSupport is an online customer support system allowing you to remotely track the status of your VersaCAMM VS series activities. The system sends e-mail notifications directly to your PC or mobile phone with important information such as when a job is completed and when ink is running low. With Roland OnSupport, you are free to leave your printer unattended, knowing that critical production information will be sent to you in real time. The system also provides valuable information such as how to create print files using metallic colours and tips to further enhance metallic effects.



White

Add Versatility and Boost Productivity with VS series White Ink Options.

The ability to use white ink greatly expands expressive potential across a wide range of media.

With white ink you can output onto transparent, silver, coloured and other media. This opens up all kinds of value added options, like bright window displays, window decals for vehicles, or short run package prototypes and mock-ups.

Double the White, Double the Speed

The 7 colour double-white ink configuration outputs two channels of white simultaneously compared to one-channel white printing in the 8 colour VS option. Compared with one-channel white printing, you can pair your 7 colour VS with the additional dryer/blower** to double the conventional printing speed by speeding up the drying process, improving the overall productivity of your business.

** The optional dryer/blower is required for double-white printing





Unique Printing Options to Drive Your Business

Choose From 4 Ink Configurations



8-Colours
CMYK, Lc, Lm, Metallic Silver and White



7-Colours
CMYK, Lc, Lm, Double White



6-Colours
CMYK, Lc, Lm



Double CMYK
CMYK+CMYK

*Ink configuration must be selected upon purchase.

New Print Head Delivers the Ultimate in Image Quality

Based on a new generation of print head technology, the VS series fires droplets of seven different sizes for beautifully smooth gradations, high-fidelity photographs and flawless solid colours. A new gold-plated print head is designed to repel ink, preventing clogs. Precision-rounded nozzles and accurate ink firing produce perfect ink droplets for unrivaled image quality.

A new gold-plated print head



Roland Intelligent Pass Control

Integrated Printing And Contour Cutting for Increased Productivity

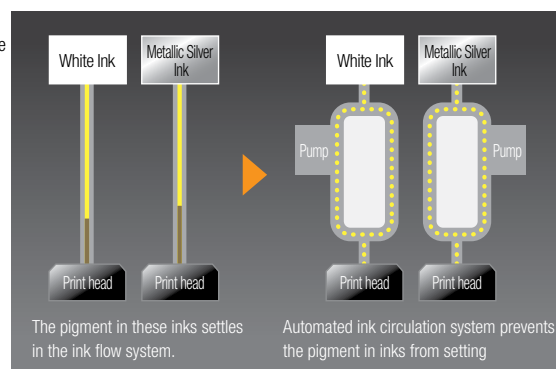
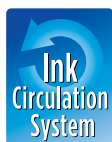
Roland's integrated Print&Cut Technology streamlines your production environment. With this efficient, automated process, you can produce print/cut graphics of virtually any shape on one device for maximum productivity. The optional media take-up system collects Print&Cut graphics automatically for unattended operation.



Print & Cut

Automated Ink Circulation System for Consistent Long-Term Image Quality

The VS series comes with Roland's unique, automated ink circulation system that prevents the pigment in metallic silver and white inks from settling. This system automatically reduces waste of white and metallic silver inks, lowers running costs, produces exceptional image quality, and ensures consistent metallic and white density throughout the longest production runs.



Flawless Media Feeding

The VS series features newly designed fixed media shafts and adjustable flanges for precision media tracking and easy loading and unloading of even the heaviest media rolls.



Spectacular window displays dress up storefronts.



Short-run decals are ideal for sales campaigns.



Great for sneak previews and private showings. Ideal for short-run mock-ups.





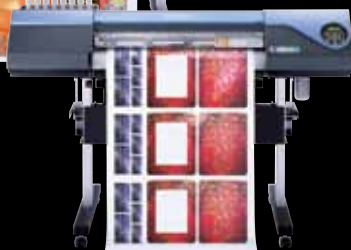
VS-640
64"



VS-540
54"



VS-420
42"



VS-300
30"

VersaCAMM



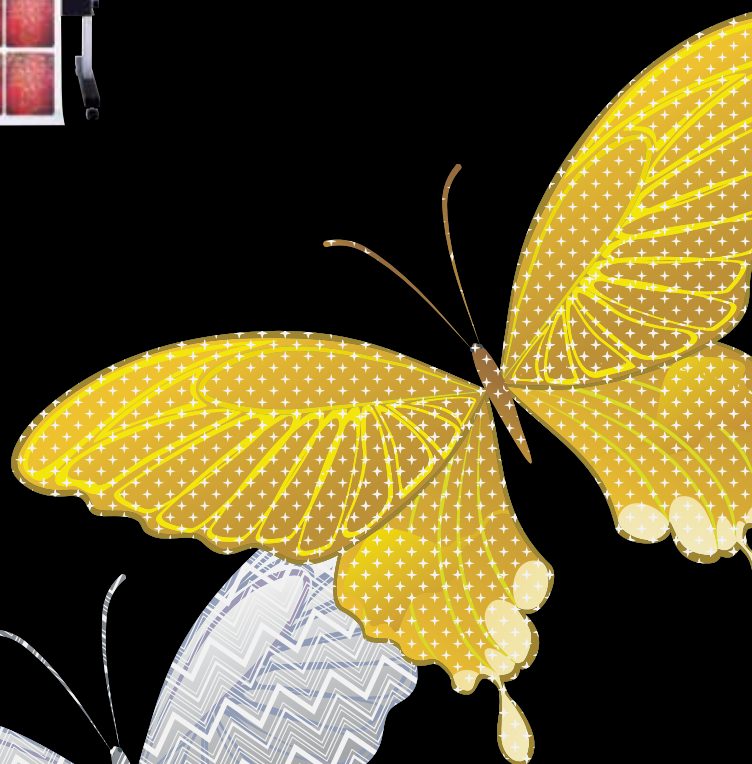
Roland Metallic Color System Library



Roland Metallic Texture System Library



Roland VersaWorks



Specifications		VS-640	VS-540	VS-420	VS-300
Printing technology		Piezoelectric inkjet			
Media	Width	210 to 1,625 mm (8.3 to 64 in.)	210 to 1,371 mm (8.3 to 54 in.)	182 to 1,071 mm (7.2 to 42.2 in.)	182 to 762 mm (7.2 to 30 in.)
	Thickness	Maximum 1.0 mm (39 mil) with liner for printing Maximum 0.4 mm (16 mil) with liner and 0.22mm (9mil) without liner for cutting			
	Roll outer diameter	Maximum 210 mm (8.3 in.)			
	Roll weight	Maximum 40 kg (88 lb.)	Maximum 30 kg (66 lb.)	Maximum 25 kg (55 lb.)	Maximum 25 kg (55 lb.)
Core diameter ^{*1}		76.2 mm (3 in.) or 50.8 mm (2 in.)			
Printing / cutting width ^{*2}		Maximum 1,600 mm (63 in.)	Maximum 1,346 mm (53 in.)	Maximum 1,046 mm (41.2 in.)	Maximum 736 mm (29 in.)
Ink cartridges	Type/Capacity	Roland ECO-SOL MAX INK/220 cc or 440 cc			
	Colours	Eight colours (cyan, magenta, yellow, black, light cyan, light magenta, metallic silver and white), seven colours (cyan, magenta, yellow, black, light cyan, light magenta, white and white), six colours (cyan, magenta, yellow, black, light cyan, and light magenta), or four colours (cyan, magenta, yellow, and black)			
Printing resolution (dots per inch)		Maximum 1,440 dpi			
Cutting speed		10 to 300 mm/s			
Blade force		30 to 300 gf			
Blade offset		0 to 1.5 mm (0 to 0.059 in.)			
Software resolution (when cutting)		0.025 mm/step (0.000984 in./step)			
Distance accuracy (when printing) ^{*3 *4}		Error of less than ±0.3% of distance travelled, or ±0.3 mm, whichever is greater			
Distance accuracy (when cutting) ^{*3}		Error of less than ±0.4% of distance travelled, or ±0.3 mm, whichever is greater			
Repeatability (when cutting) ^{*3 *5}		When distance correction has been performed (when the setting for [CUTTING MENU] - [CALIBRATION] has been made): Error of less than ±0.2% of distance travelled, or ±0.1 mm, whichever is greater			
Alignment accuracy for printing and cutting ^{*3 *6}		±0.5 mm or less			
Alignment accuracy for printing and cutting when reloading media ^{*3 *7}		Error of less than ±0.5% of distance travelled, or ±3 mm, whichever is greater			
Media heating system ^{*8}	Print heater	Setting range for the preset temperature: 30 to 45°C (86 to 112°F)			
	Dryer	Setting range for the preset temperature: 30 to 50°C (86 to 122°F)			
Connectivity		Ethernet (10BASE-T/100BASE-TX, automatic switching)			
Power-saving function		Automatic sleep feature			
Power requirements		AC 100 to 120 V ±10%, 8.2A, 50/60 Hz or AC 220 to 240 V ±10%, 4.2A, 50/60 Hz	AC 100 to 120 V ±10%, 7.9A, 50/60 Hz or AC 220 to 240 V ±10%, 4.0A, 50/60 Hz	AC 100 to 120 V ±10%, 7.2A, 50/60 Hz or AC 220 to 240 V ±10%, 3.7A, 50/60 Hz	AC 100 to 120 V ±10%, 5.6A, 50/60 Hz or AC 220 to 240 V ±10%, 2.9A, 50/60 Hz
Power consumption	During operation	Approx. 1,080 W	Approx. 1,050 W	Approx. 960 W	Approx. 740 W
	Sleep mode	Approx. 14.8 W	Approx. 14.4 W	Approx. 14.5 W	Approx. 14.4 W
Acoustic noise level	During operation	64 dB (A) or less			
	During standby	41 dB (A) or less			
Environmental	Power on	Temperature: 15 to 32°C (59 to 90°F) [20°C (68°F) or more recommended], Humidity: 35 to 80%RH (no condensing)			
	Power off	Temperature: 5 to 40°C (41 to 104°F), Humidity: 20 to 80%RH (no condensing)			
Dimensions (with stand)		2,575 (W) x 705 (D) x 1,105 (H) mm (101.4 (W) x 27.8 (D) x 43.5 (H) in.)	2,315 (W) x 705 (D) x 1,105 (H) mm (91.2 (W) x 27.8 (D) x 43.5 (H) in.)	2,015 (W) x 705 (D) x 1,105 (H) mm (79.4 (W) x 27.8 (D) x 43.5 (H) in.)	1,705 (W) x 705 (D) x 1,105 (H) mm (67.2 (W) x 27.8 (D) x 43.5 (H) in.)
Weight (with stand)		130 kg (287 lb.)	120 kg (265 lb.)	105 kg (232 lb.)	90 kg (199 lb.)
Included items		Stand, power cord, blade, blade holder, media clamps, media holder, replacement blade for separating knife, software RIP, user's manual, etc.			

^{*1} The media holder of this machine is exclusively for media with a paper tube core inner diameter of 3 inches. To use a 2 inch media core, please use the optionally available media flanges. ^{*2} The length of printing or cutting is subject to the limitations of the program. ^{*3} Using Roland specified media, loaded correctly, temperature: 25°C (77°F), humidity: 50 %RH, all pinch rollers are used, 25 mm or more for both right and left margins and 35 mm or more front margin, excluding expansion or contraction of the media, and all correction and adjustment functions of this machine have been made properly. Not assured when the print heater or dryer is used. ^{*4} Using Roland specified media, print travel of 1m ^{*5} [PREFEED] menu item must be set to "ENABLE," 64-inch and 54-inch models, media over 610 mm wide, and 4,000 mm long. Media 610 mm wide or less and 8,000 mm long, 42-inch and 30-inch models, 3,000 mm long. ^{*6} Provided that media length is under 3,000 mm. Excluding possible shift caused by expansion/contraction of the media and/or by reloading the media. ^{*7} Using Roland specified media, data size: 1,000 mm in the media-feed direction, 1,600 mm (64-inch model), 1,346 mm (54-inch model), 1,046 mm (42-inch model), or 736 mm (30-inch model) in the carriage-movement direction. No lamination. Automatic detection of crop marks at 4 points when media is reloaded. During cutting, [PREFEED] menu item must be set to "ENABLE." Excludes the effects of skewed movement and of expansion and contraction of the media. ^{*8} Warm-up is required after powerup. This may require 5 to 20 minutes, depending on the operating environment. The preset temperature may fail to be reached depending on the ambient temperature and media width.

Roland VersaWorks System Requirements	
Operating system	Windows® 7 Professional/Ultimate (32/64-bit); Windows Vista® Business/Ultimate (32/64-bit); Windows® XP Professional Service Pack 2 or later (32/64-bit)
CPU	Core™ 2 Duo, 2.0 GHz or faster recommended
RAM	2 GB or more recommended
Video card and monitor	A resolution of 1,280 x 1,024 or more recommended
Free hard-disk space	40 GB or more recommended
Hard-disk file system	NTFS format
Optical drive	DVD-ROM drive

*Roland VersaWorks™ is a 32-bit application, which runs on 64-bit Windows® with WoW64 (Windows 32-bit on Windows 64-bit).

Options		
ECO-SOL MAX INK	Model	Description
	ESL3-4MG	Magenta, 440cc
	ESL3-4YE	Yellow, 440cc
	ESL3-4CY	Cyan, 440cc
	ESL3-4BK	Black, 440cc
	ESL3-4LC	Light cyan, 440cc
	ESL3-4LM	Light magenta, 440cc
	ESL3-4MG	Magenta, 220cc
	ESL3-4YE	Yellow, 220cc
	ESL3-4CY	Cyan, 220cc
	ESL3-4BK	Black, 220cc
	ESL3-4LC	Light cyan, 220cc
	ESL3-4LM	Light magenta, 220cc
	ESL3-MT	Metallic silver, 220cc
	ESL3-WH	White, 220cc
Cleaning cartridge	SL-CL	Cleaning liquid, 1 pc.
Blades	ZEC-U5022	For thick, reflective and fluorescent vinyl, 2pcs.
	ZEC-U5025	For thick, reflective and fluorescent vinyl, 5pcs.
Blade Holders	XD-CH2	Blade holder with blade extension adjuster, made of aluminium
	XD-CH3	Blade holder with blade extension adjuster, made of resin
Automated take-up system	TU2-64/54/42/30	For VS-640/540/420/300, rolls up to 30kg (66 lbs.)
	TUC-2	Controller for TU2-64/54/42/30 take-up system

*The glossiness of metallic colours depends on the media used. For best results, produce a test print on each substrate before production.

About Metallic Silver and White Inks	Due to the nature of white and silver inks, the pigment in these inks will settle in the cartridge and ink flow system, requiring you to shake the cartridge before each use. Outdoor durability is three years for CMYK inks, one year for white ink, and one to three years for metallic silver ink, depending on the media used. Roland strongly recommends lamination for both indoor and outdoor graphics to ensure the quality of metallic inks.
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Roland DG products that feature this environmental label meet the company's criteria for environmental consciousness, a set of standards based on ISO 14021 self-declaration type II. For more information, please visit www.rolanddg.com.



Roland reserves the right to make changes in specifications, materials or accessories without notice. Your actual output may vary. For optimum output quality, periodic maintenance to critical components may be required. Please contact your Roland dealer for details. No guarantee or warranty is implied other than expressly stated. Roland shall not be liable for any incidental or consequential damages, whether foreseeable or not, caused by defects in such products.

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Option

Automated take-up system



TU2-64 For VS-640
TU2-54 For VS-540
TU2-42 For VS-420
TU2-30 For VS-300

Heater and blower Required for 7-Colours Configuration



OndS 640A For VS-640
OndS 540A For VS-540
OndS 420A For VS-420
OndS 300A For VS-300

Application software compatible with Cutting and Print&Cut

Adobe® Illustrator® 10, CS, CS2, CS3, CS4, CSS/ CorelDRAW® 11, 12, X3, X4, X5

